

DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL

```

LL      000000      GGGGGGGG      IIIIII      CCCCCCCC      AAAAAA      LL
LL      000000      GGGGGGGG      IIIIII      CCCCCCCC      AAAAAA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LL      00      00      GG      II      CC      AA      AA      LL
LLLLLLLLLLLL      000000      GGGGGG      IIIIII      CCCCCCCC      AAAAAA      LL
LLLLLLLLLLLL      000000      GGGGGG      IIIIII      CCCCCCCC      AAAAAA      LL

```

```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```


(3)	130	ALLOCATE DEVICE
(4)	271	ASSIGN LOGICAL NAME TO EQUIVALENCE STRING
(5)	357	DEFINE LOGICAL NAME EQUIVALENCE
(7)	482	DEALLOCATE DEVICE
(8)	515	DEASSIGN LOGICAL NAME EQUIVALENCE
(9)	563	TEST IF LOGICAL NAME IS SYSS\$OUTPUT
(10)	591	PROCESS COMMON COMMAND QUALIFIERS
(11)	740	GET TRANSLATION ATTRIBUTES
(12)	772	CREATE LOGICAL NAME TABLE
(13)	945	SHOW LOGICAL NAME EQUIVALENCES


```
0000 1 .TITLE LOGICAL - LOGICAL NAME COMMANDS
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6
0000 7 *
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0000 25 *
0000 26 *****
0000 27
0000 28 LOGICAL NAME DCLS COMMAND EXECUTION
0000 29
0000 30 ALLOCATE DEVICE
0000 31 ASSIGN LOGICAL NAME
0000 32 DEALLOCATE DEVICE
0000 33 DEASSIGN LOGICAL NAME
0000 34 DEFINE LOGICAL NAME
0000 35 CREATE LOGICAL NAME TABLE
0000 36 SHOW LOGICAL NAME TRANSLATION
0000 37
0000 38 Peter George 20-April-1983
0000 39
0000 40 MODIFIED BY:
0000 41
0000 42 V03-007 HWS0078 Harold Schultz 02-Jul-1984
0000 43 Fix negation of table qualifiers in ASSIGN, DEASSIGN,
0000 44 and DEFINE commands.
0000 45
0000 46 V03-006 HWS0041 Harold Schultz 12-Apr-1984
0000 47 Add ALLOCATE /GENERIC.
0000 48
0000 49 V03-005 PCG0003 Peter George 20-Mar-1984
0000 50 Add /JOB qualifier.
0000 51
0000 52 V03-004 HWS0005 Harold Schultz 07-Feb-1984
0000 53 Added /PROTECTION=(SY:RWED,OW:RWED,...) qualifier for
0000 54 when creating a logical name table.
0000 55 Add /LOG qualifier when creating a logical name table.
0000 56 Output informational messages after table creation.
0000 57
```


0000	58	:	V03-003	TMK0001	Todd M. Katz	12-Oct-1983
0000	59	:			Translate logical names using LNMSDCL_LOGICAL as the table	
0000	60	:			name instead of LNMSDEFAULT_SEARCH.	
0000	61	:				
0000	62	:	V03-002	PCG0002	Peter George	01-Jul-1983
0000	63	:			Fix bug in ALLOCATE command parsing.	
0000	64	:			Replace old logical name commands.	
0000	65	:			Stop fooling around with the CRELOG bit.	
0000	66	:				
0000	67	:	V03-001	PCG0001	Peter George	15-Jun-1983
0000	68	:			Return more helpful status when ALLOCATE fails.	
0000	69	:			Pass equivalence name to DCL\$OPEN_OUTPUT.	
0000	70	:---				

```
0000 72 : MACRO LIBRARY CALLS
0000 73 :
0000 74 :
0000 75 :
0000 76 PRCDEF ;DEFINE PROCESS WORK AREA
0000 77 WRKDEF ;DEFINE COMMAND WORK AREA
0000 78 PTRDEF ;DEFINE RESULT PARSE DESCRIPTOR FORMAT
0000 79 $CLMSGDEF ;DEFINE ERROR/STATUS VALUES
0000 80 $LNMDDEF ;DEFINE LOGICAL NAME OFFSETS
0000 81 $PSLDEF ;DEFINE PROCESSOR STATUS FIELDS
0000 82 $SSDEF ;DEFINE SYSTEM STATUS VALUES
0000 83
00000000 84 .PSECT DCL$ZCODE,BYTE,RD,NOWRT
0000 85
0000 86 : LOCAL DATA
0000 87 :
0000 88 :
0000 89 OUTPUTNAM:
54 55 50 54 55 4F 24 53 59 53 00' 0000 90 .ASCIC 'SYS$OUTPUT'
OA 0000
0000 91 LNMS$PROCESS:
53 53 45 43 4F 52 50 24 4D 4E 4C 00' 0000 92 .ASCIC 'LNMS$PROCESS'
OB 0000
0017 93 LNMS$JOB:
42 4F 4A 24 4D 4E 4C 00' 0017 94 .ASCIC 'LNMS$JOB'
07 0017
001F 95 LNMS$GROUP:
50 55 4F 52 47 24 4D 4E 4C 00' 001F 96 .ASCIC 'LNMS$GROUP'
09 001F
0029 97 LNMS$SYSTEM:
4D 45 54 53 59 53 24 4D 4E 4C 00' 0029 98 .ASCIC 'LNMS$SYSTEM'
OA 0029
0034 99 LNMSDCL_LOGICAL:
47 4F 4C 5F 4C 43 44 24 4D 4E 4C 00' 0034 100 .ASCIC 'LNMSDCL_LOGICAL'
4C 41 43 49 0040
OF 0034
0044 101 LNMS$PROCESS_DIRECTORY:
53 53 45 43 4F 52 50 24 4D 4E 4C 00' 0044 102 .ASCIC 'LNMS$PROCESS_DIRECTORY'
59 52 4F 54 43 45 52 49 44 5F 0050
15 0044
005A 103 LNMS$FILE_DEV:
45 44 5F 45 4C 49 46 24 4D 4E 4C 00' 005A 104 .ASCIC 'LNMS$FILE_DEV'
56 0066
OC 005A
0067 105 UNDEFINED:
44 45 4E 49 46 45 44 4E 55 00' 0067 106 .ASCIC 'UNDEFINED'
09 0067
0071 107 LOGICALMSG:
41 21 22 20 3D 20 53 41 21 20 20 00' 0071 108 .ASCIC ' !AS = "!AS" (!AS)'
29 53 41 21 28 20 20 22 53 007D
14 0071
52 57 45 44 0086 109 ACCESS: .ASCII /DEWR/ ;ACCESS PROTECTION CODES
53 4F 47 57 008A 110 CLASS: .ASCII /WGOS/ ;PROTECTION CLASSES
008E 111 :
008E 112 : DEFINE OFFSETS FOR COMMON PARSING DATA STRUCTURE
008E 113 :
00000020 008E 114 EQUAM = 32
```


LOGICAL
V04-000

- LOGICAL NAME COMMANDS

F 15

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
4-SEP-1984 23:41:57 [DCL.SRC]LOGICAL.MAR;1

Page 4
(2)

00000018	008E	115	LOGNAM = 24
00000010	008E	116	TABNAM = 16
0000000C	008E	117	ACMODE = 12
00000008	008E	118	QUAL = 8
0000FF00	008E	119	DEF_PROT = ^XFF00
00000000	008E	120	LOG_V = 0
00000001	008E	121	LOG_M = 1
00000001	008E	122	ATTR_V = 1
00000002	008E	123	ATTR_M = 2
00000002	008E	124	DEF_V = 2
00000004	008E	125	DEF_M = 4
00000004	008E	126	NAME_ATTR = 4
00000000	008E	127	TRAN_ATTR = 0
	008E	128	

```
008E 130 .SBTTL ALLOCATE DEVICE
008E 131 :+
008E 132 DCL$ALLOCATE - ALLOCATE DEVICE
008E 133 :
008E 134 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE ALLOCATE
008E 135 COMMAND.
008E 136 :
008E 137 INPUTS:
008E 138 :
008E 139 R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
008E 140 R9 = ADDRESS OF SCRATCH STACK.
008E 141 R10 = BASE ADDRESS OF COMMAND WORK AREA.
008E 142 R11 = BASE ADDRESS OF PROCESS WORK AREA.
008E 143 :
008E 144 OUTPUTS:
008E 145 :
008E 146 THE SPECIFIED DEVICE IS ALLOCATED AND ASSIGNED THE SPECIFIED LOGICAL
008E 147 NAME. IF THE LOGICAL NAME WAS PREVIOUSLY ASSIGNED, THEN A MESSAGE TO
008E 148 THAT EFFECT IS WRITTEN TO THE OUTPUT STREAM.
008E 149 :
008E 150 DCL$ALLOCATE:: ;ALLOCATE DEVICE
008E 151 :
008E 152 Allocate and init common logical name data structure.
008E 153 :
59 10 C2 008E 154 SUBL #16,R9 ;ALLOCATE PHYSICAL DEV BUFFER
79 59 D0 0091 155 MOVL R9,-(R9) ;INIT THE EQUIV NAME DESCR
79 10 3C 0094 156 MOVZWL #16,-(R9) ;
79 79 7C 0097 157 CLRQ -(R9) ;ALLOCATE LOG NAME DESCR
55 BE AF 9E 0099 158 MOVAB LNMS$FILE_DEV,R5 ;SET LOGICAL NAME TABLE
54 85 9A 009D 159 MOVZBL (R5)+,R4 ;
79 54 7D 00A0 160 MOVQ R4,-(R9) ;SAVE THE DESCRIPTOR
79 02 D0 00A3 161 MOVL #PSL$C_SUPER,-(R9) ;AND SUPERVISOR MODE
79 01 D0 00A6 162 MOVL #LOG_M,-(R9) ;ASSUME /LOG DEFAULTED
79 79 7C 00A9 163 CLRQ -(R9) ;SET DEFAULT NAME/TRAN ATTRIBUTES
58 59 D0 00AB 164 MOVL R9,R8 ;COPY THE BASE OF THE DATA STRUCTURE
79 D4 00AE 165 CLRL -(R9) ;ALLOCATE /TYPE VALUE
008E 166 :
57 0908 56 D4 00B0 167 CLRL R6 ;SET NO TERMINATOR YET
8F 3C 00B2 168 MOVZWL #SS$_NOSUCHDEV,R7 ;PRESET ERROR STATUS
008E 169 :
008E 170 :
008E 171 : Process /log and /type command qualifiers.
008E 172 :
008E 173 10$: BSBW DCL$GETDVAL ;GET NEXT TOKEN
03 55 91 00BA 174 CMPB R5,#PTR_K_PARAMETR ;PARAMETER VALUE?
2C 13 00BD 175 BEQL 40$ ;YES, THEN NO /GENE OR /LOG
FF3E' 30 00BF 176 BSBW DCL$GETNVAL ;GET QUALIFIER TYPE
51 00'8F 91 00C2 177 CMPB #CLISK_ALLO_GENE,R1 ;IS IT /GENE
0D 13 00C6 178 BEQL 20$ ;YES, THEN BRANCH
08 A8 01 C8 00C8 179 BISL #LOG_M,QUAL(R8) ;ASSUME /LOG
E8 53 E9 00CC 180 BLBC R3,10$ ;BRANCH IF SO
08 A8 01 CA 00CF 181 BICL #LOG_M,QUAL(R8) ;SET /NOLOG
E2 11 00D3 182 BRB 10$ ;GET NEXT TOKEN
69 D4 00D5 183 CLRL (R9) ;ASSUME /NOGENERIC
DD 53 E8 00D7 184 BLBS R3,10$ ;BRANCH IF SO
69 01 D0 00DA 185 MOVL #1,(R9) ;IT WAS /GENERIC
D8 11 00DD 186 BRB 10$ ;GET NEXT TOKEN
```



```
00DF 187
00DF 188
00DF 189 : Return allocation error.
00DF 190
50 57 D0 00DF 191 90$: MOVL R7,R0 ;SET ERROR STATUS
05 05 00E2 192 RSB ;EXIT
00E3 193
00E3 194
00E3 195 : Process the device names.
00E3 196
05 FF1A' 30 00E3 197 30$: BSBW DCL$GETDVAL ;GET NEXT TOKEN
05 56 91 00E6 198 CMPB R6,#PTR_K_COMMA ;ANOTHER PARAMETER VALUE IN LIST?
03 F4 12 00E9 199 BNEQ 90$ ;NO, THEN ERROR
03 55 91 00EB 200 40$: CMPB R5,#PTR_K_PARAMETR ;PARAMETER VALUE?
03 EF 12 00EE 201 BNEQ 90$ ;NO, THEN ERROR
56 54 D0 00F0 202 MOVL R4,R6 ;SAVE TOKEN TERMINATOR
FF 0A' 30 00F3 203 BSBW DCL$COMPSTRING ;REMOVE ANY DOUBLE QUOTES
18 A8 51 7D 00F6 204 MOVQ R1,LOGNAM(R8) ;SAVE THE DESCRIPTOR
FF A241 3A 91 00FA 205 CMPB #^A/:/,-1(R2)[R1] ;DEVICE NAME END WITH A COLON?
03 03 12 00FF 206 BNEQ 50$ ;IF NEQ NO
18 A8 D7 0101 207 DECL LOGNAM(R8) ;REDUCE LENGTH OF DEVICE NAME
50 69 D0 0104 208 50$: MOVL (R9),R0 ;GET /GENERIC INDICATOR
0107 209 $ALLOC,S LOGNAM(R8),EQUAM(R8),- ;ALLOCATE DEVICE
0107 210 EQUAM(R8),#0,R0
57 50 D0 011B 211 MOVL R0,R7 ;SAVE FINAL STATUS
C2 50 E9 011E 212 BLBC R0,30$ ;IF ERROR, TRY NEXT DEVICE IN LIST
0121 213
0121 214
0121 215 : Output the device allocated message.
0121 216
10 08 A8 00 E1 0121 217 BBC #LOG V,QUAL(R8),80$ ;SKIP IF /NOLOG
20 A8 7F 0126 218 PUSHAQ EQUAM(R8) ;PUSH DESCRIPTOR ADDRESS
51 01 D0 0129 219 MOVL #1,R1 ;SET ARG COUNT
50 0003DDE3 8F D0 012C 220 MOVL #CLIS$ALLOC,R0 ;SET STATUS
FECA' 30 0133 221 BSBW DCL$FORMMSG ;OUTPUT INFORMATIONAL MESSAGE
0136 222
0136 223
0136 224 : Get the requested logical name.
0136 225
03 FEC7' 30 0136 226 80$: BSBW DCL$GETDVAL ;GET NEXT PARAMETER VALUE
03 55 91 0139 227 CMPB R5,#PTR_K_PARAMETR ;PARAMETER VALUE?
02 13 013C 228 BEQL 60$ ;CONTINUE IF LOGICAL NAME FOUND
03 5B 11 013E 229 BRB 95$ ;EXIT IF NOT
05 56 91 0140 230 60$: CMPB R6,#PTR_K_COMMA ;STILL IN P1 LIST?
05 05 12 0143 231 BNEQ 70$ ;IF P2 FOUND, ASSIGN THE LOGICAL NAM
56 54 D0 0145 232 MOVL R4,R6 ;COPY TERMINATOR TYPE CODE
EC 11 0148 233 BRB 80$ ;LOOP UNTIL P2 OR EOL FOUND
014A 234
FF A241 FEB3' 30 014A 235 70$: BSBW DCL$COMPSTRING ;REMOVE QUOTATION MARKS
3A 91 014D 236 CMPB #^A/:/,-1(R2)[R1] ;LOGICAL NAME END WITH COLON?
02 12 0152 237 BNEQ 75$ ;IF NEQ NO
18 A8 51 D7 0154 238 DECL R1 ;REDUCE LENGTH OF LOGICAL NAME
0156 239 75$: MOVQ R1,LOGNAM(R8) ;SAVE THE LOGICAL NAME
015A 240
015A 241
015A 242 : Create the required item list.
015A 243
```

7E	20	7E	7C	015A	244	CLRQ	-(SP)	;TERMINATE THE LIST, ZERO LEN ADDR
02	AE	02	7D	015C	245	MOVQ	EQUAM(R8),-(SP)	;SET THE EQUIV NAME DESCR
57	5E	02	80	0160	246	MOVW	#LNMS_STRING,2(SP)	;SET THE ITEM TYPE
		5E	D0	0164	247	MOVL	SP,R7	;GET THE ITEM LIST ADDRESS
				0167	248			
				0167	249	\$CRELNM,S	ATTR=NAME ATTR(R8),-	;CREATE THE REQUESTED NAME
				0167	250		TABNAM=TABNAM(R8),-	
				0167	251		LOGNAM=LOGNAM(R8),-	
				0167	252		ACMODE=ACMODE(R8),-	
				0167	253		ITMLST=(R7)	
				017C	254			
5E	10		C0	017C	255	ADDL	#4*4,SP	;POP THE ITEM LIST
				017F	256			
				017F	257			
				017F	258			
				017F	259			
50	0631	8F	B1	017F	260			
		1C	12	0184	261	CMPW	#SS\$_SUPERSEDE,R0	;PREVIOUS ASSIGNMENT SUPERSEDED?
10	08	A8	00	E1	0186	BNEQ	96\$;IF NEQ NO
	18	A8	9F	018B	262	BBC	#LOG V,QUAL(R8),95\$;BRANCH IF /NOLOG
	51	01	D0	018E	263	PUSHAB	LOGNAM(R8)	;SET LOGICAL NAME ADDRESS
50	0003DDEB	8F	D0	0191	264	MOVL	#1,R1	;SET FAO COUNT
	FE65		30	0198	265	MOVL	#CLIS_SUPERSEDE,R0	;SET STATUS
				019B	266	BSBW	DCL\$FORMMSG	;OUTPUT MESSAGE
				019B	267			
			05	01A2	268	STATUS	NORMAL	;RETURN SUCCESS
					269	RSB	96\$:	;EXIT

: Output informational message if appropriate.


```
01A3 271 .SBTTL ASSIGN LOGICAL NAME TO EQUIVALENCE STRING
01A3 272 :+
01A3 273 : DCL$ASSIGN - ASSIGN LOGICAL NAME TO EQUIVALENCE STRING
01A3 274 :
01A3 275 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE ASSIGN
01A3 276 : COMMAND.
01A3 277 :
01A3 278 : INPUTS:
01A3 279 :
01A3 280 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
01A3 281 : R9 = ADDRESS OF SCRATCH STACK.
01A3 282 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
01A3 283 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
01A3 284 :
01A3 285 : OUTPUTS:
01A3 286 :
01A3 287 : THE SPECIFIED LOGICAL NAME IS ASSIGNED TO THE SPECIFIED EQUIVALENCE
01A3 288 : STRING. IF A PREVIOUS LOGICAL ASSIGNMENT IS SUPERSEDED, THEN A
01A3 289 : MESSAGE TO THAT EFFECT IS WRITTEN TO THE OUTPUT STREAM.
01A3 290 :-
01A3 291
01A3 292 DCL$ASSIGN:: :ASSIGN LOGICAL NAME TO EQUIVALENCE
01A3 293 :
01A3 294 : Parse the common qualifiers and the logical name string.
01A3 295 :
01A3 296 BSBW COMMON_QUAL :PROCESS COMMON QUALIFIERS
01A3 297 CLRQ -(R9) :ALLOCATE SPACE FOR EQUIV NAME
01A3 298 MOVQ LOGNAM(R8),R1 :GET EQUIV NAME DESCR
01A3 299 BSBW DCL$COMPRESS :COMPRESS THE STRING
01A3 300 MOVQ R1,EQUAM(R8) :SAVE EQUIV NAME
01B3 301
01B3 302 :
01B3 303 : Init the item list. Insert the default translation attributes.
01B3 304 :
01B3 305 MOVAB -64*6*4-4(SP),SP :ALLOCATE ROOM FOR A 128 ITEM LIST
01B3 306 MOVL SP,R7 :SAVE THE ADDRESS OF THE LIST
01BB 307
01BB 308 MOVL #LNMS_ATTRIBUTES@16+4,(R7)+ :SET THE ITEM TYPE
01C2 309 MOVAL TRAN_ATTR(R8),(R7)+ :SET THE DEFAULT ATTRIBUTES ADDR
01C5 310 CLRL (R7)+ :ZERO THE RETURN LENGTH ADDR
01C7 311 MOVL #1,R6 :MARK DEFAULT ATTRIBUTES SET
01CA 312
01CA 313 :
01CA 314 : Loop getting equivalence strings and their attributes.
01CA 315 : Build the item list.
01CA 316 :
01CA 317 25$: BSBW GET_TRAN_ATTR :CHECK FOR NEW TRAN ATTRIBUTES
01CD 318 BLBC R0,30$ :BRANCH IF NO LOCAL QUALIFIER
01D0 319 MOVL #LNMS_ATTRIBUTES@16+4,(R7)+ :SET THE ITEM TYPE
01D7 320 MOVL R3,-(R9) :SAVE THE ATTRIBUTES
01DA 321 MOVL R9,(R7)+ :SET THE ATTRIBUTES ADDR
01DD 322 CLRL (R7)+ :ZERO THE RETURN LENGTH ADDR
01DF 323 CLRL R6 :MARK NEW ATTRIBUTES SET
01E1 324 BRB 40$ :PROCESS THE PARAMETER
01E3 325 30$: BLBS R6,40$ :SKIP IF DEFAULTS IN EFFECT
01E6 326 MOVL #LNMS_ATTRIBUTES@16+4,(R7)+ :SET THE ITEM TYPE
01ED 327 MOVAL TRAN_ATTR(R8),(R7)+ :SET THE DEFAULT ATTRIBUTES ADDR
```

0221 30
79 7C
51 18 A8 7D
FE51' 30
20 A8 51 7D

5E F9FC CE 9E
57 5E DO

87 00030004 8F DO
87 68 DE
87 87 D4
56 01 DO

0377 30
13 50 E9
87 00030004 8F DO
79 53 DO
87 59 DO
87 87 D4
56 87 D4
12 11
OF 56 E8
87 00030004 8F DO
87 68 DE

```
      87 D4 01F0 328      CLRL (R7)+      ;ZERO THE RETURN LENGTH ADDR
56 01 D0 01F2 329      MOVL #1,R6      ;MARK NEW ATTRIBUTES SET
      01F5 330
87 20 A8 7D 01F5 331 40$: MOVQ EQUAM(R8),(R7)+      ;SAVE THE EQUIV NAME DESCR
FA A7 02 B0 01F9 332      MOVW #LNMS_STRING,-6(R7)      ;SET THE ITEM TYPE
      87 D4 01FD 333      CLRL (R7)+      ;ZERO THE RETURN LENGTH ADDR
      0C C3 01FF 334      SUBL3 #PTR_K_LENGTH,-      ;GET ADDRESS OF TOKEN DESCRIPTOR
50 BA AA 0201 335      WRK_C_RSLNXT(R10),R0
02 06 A0 91 0204 336      CMPB PTR_B_PARMCNT(R0),#2      ;HAVE WE FOUND THE LOGICAL NAME?
      09 13 0208 337      BEQL 43$      ;YES, THEN TERMINATE ITEM LIST
      FDF3' 30 020A 338      BSBW DCL$COMPRESS      ;COMPRESS THE STRING
20 A8 51 7D 020D 339      MOVQ R1,EQUAM(R8)      ;STORE THE LATEST STRING DESCR
      B7 11 0211 340      BRB 25$      ;CHECK FOR NEW ATTRIBUTES
      0213 341
      87 D4 0213 342 43$: CLRL (R7)+      ;TERMINATE THE LIST
      0215 343
      0215 344
      0215 345      ; Process logical name string.
      0215 346
      FDE8' 30 0215 347      BSBW DCL$COMPSTRING      ;REMOVE QUOTATION MARKS
FF A241 3A 91 0218 348      CMPB #A/;/,-1(R2)[R1]      ;LOGICAL NAME END WITH COLON?
      02 12 021D 349      BNEQ 45$      ;IF NEQ NO
      51 D7 021F 350      DECL R1      ;REDUCE LENGTH OF LOGICAL NAME
18 A8 51 7D 0221 351 45$: MOVQ R1,LOGNAM(R8)      ;SAVE LOGICAL NAME DESCRIPTOR
      031C 30 0225 352      BSBW GET_TRAN_ATTR      ;CHECK FOR NEW TRAN ATTRIBUTES
      03 50 E9 0228 353      BLBC R0,47$      ;BRANCH IF NO LOCAL QUALIFIER
      68 53 D0 022B 354      MOVL R3,TRAN_ATTR(R8)      ;SAVE THE ATTRIBUTES
      007C 31 022E 355 47$: BRW COMMON_CRELNM      ;CREATE THE LOGICAL NAME
```



```
0231 357 .SBTTL DEFINE LOGICAL NAME EQUIVALENCE
0231 358 :+
0231 359 : DCL$DEFINE - DEFINE LOGICAL NAME EQUIVALENCE
0231 360 :
0231 361 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE DEFINE
0231 362 : COMMAND.
0231 363 :
0231 364 : INPUTS:
0231 365 :
0231 366 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0231 367 : R9 = ADDRESS OF SCRATCH STACK.
0231 368 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0231 369 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0231 370 :
0231 371 : OUTPUTS:
0231 372 :
0231 373 : THE SPECIFIED LOGICAL NAME IS ASSIGNED TO THE SPECIFIED EQUIVALENCE
0231 374 : STRING. IF A PREVIOUS LOGICAL ASSIGNMENT IS SUPERSEDED, THEN A
0231 375 : MESSAGE TO THAT EFFECT IS WRITTEN TO THE OUTPUT STREAM.
0231 376 : -
0231 377 :
0231 378 DCL$DEFINE:: ;DEFINE LOGICAL NAME EQUIVALENCE
0231 379 :
0231 380 : Parse the common qualifiers and the logical name string.
0231 381 :
0231 382 : BSBW COMMON_QUAL ;PROCESS COMMON QUALIFIERS
0231 383 : CLRQ -(R9) ;ALLOCATE SPACE FOR EQUIVALENCE NAME
0231 384 : MOVQ LOGNAM(R8),R1 ;GET LOGICAL NAME DESCR
0231 385 : BSBW DCL$COMPSTRING ;REMOVE QUOTES FROM LOGICAL NAME
0231 386 : MOVQ R1,LOGNAM(R8) ;SAVE LOGICAL NAME
0231 387 :
0231 388 :
0231 389 : Init the item list. Insert the default translation attributes.
0231 390 :
0231 391 : MOVAB -64*6*4-4(SP),SP ;ALLOCATE ROOM FOR A 128 ITEM LIST
0231 392 : MOVL SP,R7 ;SAVE THE ADDRESS OF THE LIST
0231 393 :
0231 394 : MOVL #LNMS_ATTRIBUTES@16+4,(R7)+ ;SET THE ITEM TYPE
0231 395 : MOVAL TRAN_ATTR(R8),(R7)+ ;SET THE DEFAULT ATTRIBUTES ADDR
0231 396 : CLRL (R7)+ ;ZERO THE RETURN LENGTH ADDR
0231 397 :
0231 398 : BSBW GET_TRAN_ATTR ;CHECK FOR NEW TRAN ATTRIBUTES
0231 399 : BLBC R0,23$ ;BRANCH IF NO LOCAL QUALIFIER
0231 400 : MOVL R3,TRAN_ATTR(R8) ;SAVE THE ATTRIBUTES
0231 401 : BSBW DCL$COMPRESS ;COMPRESS THE STRING
0231 402 : MOVQ R1,EQUAM(R8) ;LOAD THE PIPELINE
0231 403 : MOVL #1,R6 ;MARK DEFAULT ATTRIBUTES SET
0231 404 :
0231 405 :
0231 406 : Loop getting equivalence strings and their attributes.
0231 407 : Build the item list.
0231 408 :
0231 409 : 25$: BSBW GET_TRAN_ATTR ;CHECK FOR NEW TRAN ATTRIBUTES
0231 410 : BLBC R0,30$ ;BRANCH IF NO LOCAL QUALIFIER
0231 411 : MOVL #LNMS_ATTRIBUTES@16+4,(R7)+ ;SET THE ITEM TYPE
0231 412 : MOVQ R3,-(R9) ;SAVE THE ATTRIBUTES
0231 413 : MOVL R9,(R7)+ ;SET THE ATTRIBUTES ADDR

0193 30 0231 382
79 7C 0234 383
51 18 A8 7D 0236 384
FDC3' 30 023A 385
18 A8 51 7D 023D 386
0241 387
0241 388
0241 389
0241 390
5E F9FC CE 9E 0241 391
57 5E D0 0246 392
00030004 8F D0 0249 393
87 68 DE 0249 394
87 D4 0250 395
0253 396
0255 397
02EC 30 0255 398
03 50 E9 0258 399
68 53 D0 025B 400
FD9F' 30 025E 401 23$:
20 A8 51 7D 0261 402
56 01 D0 0265 403
0268 404
0268 405
0268 406
0268 407
0268 408
02D9 30 0268 409 25$:
13 50 E9 026B 410
00030004 8F D0 026E 411
79 53 D0 0275 412
87 59 D0 0278 413
```

87	00030004	OF 87	D4	027B	414	CLRL	(R7)+	;ZERO THE RETURN LENGTH ADDR
		56	D4	027D	415	CLRL	R6	;MARK NEW ATTRIBUTES SET
		12	11	027F	416	BRB	40\$;PROCESS THE PARAMETER
		56	E8	0281	417	BLBS	R6,40\$;SKIP IF DEFAULTS IN EFFECT
		8F	D0	0284	418	MOVL	#LNMS_ATTRIBUTES@16+4,(R7)+	;SET THE ITEM TYPE
		87	DE	028B	419	MOVAL	TRAN_ATTR(R8),(R7)+	;SET THE DEFAULT ATTRIBUTES ADDR
		87	D4	028E	420	CLRL	(R7)+	;ZERO THE RETURN LENGTH ADDR
		56	D0	0290	421	MOVL	#1,R6	;MARK NEW ATTRIBUTES SET
				0293	422			
87	20	A8	7D	0293	423	MOVQ	EQUAM(R8),(R7)+	;SAVE THE EQUIV NAME DESCR
FA	A7	02	B0	0297	424	MOVW	#LNMS_STRING,-6(R7)	;SET THE ITEM TYPE
		87	D4	029B	425	CLRL	(R7)+	;ZERO THE RETURN LENGTH ADDR
		55	04	91	029D	CMPB	#PTR_K_ENDLINE,R5	;EOL?
		09	13	02A0	427	BEQL	43\$;YES, THEN TERMINATE ITEM LIST
		FD5B'	30	02A2	428	BSBW	DCL\$COMPRESS	;COMPRESS THE STRING
20	A8	51	7D	02A5	429	MOVQ	R1,EQUAM(R8)	;STORE THE LATEST STRING DESCR
		BD	11	02A9	430	BRB	25\$;CHECK FOR NEW ATTRIBUTES
				02AB	431			
		87	D4	02AB	432	CLRL	(R7)+	;TERMINATE THE LIST
				02AD	433			


```
02AD 435 :  
02AD 436 : Check for SYSS$OUTPUT. Do special processing if appropriate.  
02AD 437 :  
02AD 438 COMMON_CRELNM:  
57 1C C2 02AD 439 SUBL #6*4+4,R7 ;WAS MORE THAN ONE VALUE SUPPLIED  
5E 57 D1 02B0 440 CMPL R7,SP ;  
05 12 02B3 441 BNEQ 45$ ;YES, THEN BRANCH  
00D9 30 02B5 442 BSBW TESTOUT ;IS LOGICAL NAME SYSS$OUTPUT?  
46 13 02B8 443 BEQL 80$ ;YES, THEN BRANCH  
02BA 444 :  
02BA 445 :  
02BA 446 : Create the requested logical names.  
02BA 447 :  
00 08 A8 01 E1 02BA 448 45$: BBC #ATTR V,QUAL(R8),47$ ;BRANCH IF QUALIFIER NOT SEEN  
57 5E D0 02BF 449 BICL #LNMSM_CRELOG,NAME_ATTR(R8) ;DISABLE CRELOG ATTRIBUTE  
02C2 451 47$: MOVL SP,R7 ;GET THE ITEM LIST ADDRESS  
02C2 452 $CRELNM,S ATTR=NAME ATTR(R8),- ;CREATE THE REQUESTED NAME  
02C2 453 TABNAM=TABNAM(R8),- ;  
02C2 454 LOGNAM=LOGNAM(R8),- ;  
02C2 455 ACMODE=ACMODE(R8),- ;  
02D7 456 ITMLST=(R7) ;  
02D7 457 :  
02D7 458 : Output informational message if appropriate.  
02D7 459 :  
50 0631 8F B1 02D7 460 CMPW #SS$_SUPERSEDE,R0 ;PREVIOUS ASSIGNMENT SUPERSEDED?  
1C 12 02DC 461 BNEQ 60$ ;IF NEQ NO  
10 08 A8 00 E1 02DE 462 BBC #LOG V,QUAL(R8),50$ ;BRANCH IF /NOLOG  
18 A8 9F 02E3 463 PUSHAB LOGNAM(R8) ;SET LOGICAL NAME ADDRESS  
51 01 D0 02E6 464 MOVL #1,R1 ;SET FAO COUNT  
50 0003DDEB 8F D0 02E9 465 MOVL #CLIS$_SUPERSEDE,R0 ;SET STATUS  
FD0D' 30 02F0 466 BSBW DCL$FORMMSG ;OUTPUT MESSAGE  
02F3 467 :  
5E 0604 CE 9E 02F3 468 50$: STATUS NORMAL ;SET NORMAL COMPLETION  
05 02FA 469 60$: MOVAB 64*6*4+4(SP),SP ;RESTORE THE STACK  
02FF 470 RSB ;  
0300 471 :  
0300 472 :  
0300 473 : Update SYSS$OUTPUT.  
0300 474 :  
51 20 A8 7D 0300 475 80$: MOVQ EQUAM(R8),R1 ;GET DESCRIPTOR OF EQUIVALENCE NAME  
FCF9' 30 0304 476 BSBW DCL$OPEN_OUTPUT ;OPEN SPECIFIED OUTPUT FILE  
FO 50 E9 0307 477 R0,60$ ;LEAVE EVERYTHING ALONE IF ERROR  
58 00BC CB D0 030A 478 MOVL PRC_L IDFLNK(R11),R8 ;POINT TO THE SYSS$OUTPUT INFORMATION  
FCEE' 30 030F 479 BSBW DCL$CREATE_OUTPUT ;CREATE THE SYSS$OUTPUT LOGICAL NAME  
DF 11 0312 480 BRB 50$ ;
```



```
0314 482 .SBTTL DEALLOCATE DEVICE
0314 483 :+
0314 484 : DCL$DEALLOCAT - DEALLOCATE DEVICE
0314 485 :
0314 486 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE DEALLOCATE
0314 487 : DCLS COMMAND.
0314 488 :
0314 489 : INPUTS:
0314 490 :
0314 491 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0314 492 : R9 = ADDRESS OF SCRATCH STACK.
0314 493 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0314 494 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0314 495 :
0314 496 : OUTPUTS:
0314 497 :
0314 498 : THE SPECIFIED DEVICE IS DEALLOCATED OR ALL DEVICES ARE DEALLOCATED.
0314 499 :-
0314 500
0314 501 DCL$DEALLOCAT::
0314 502 BSBW DCL$GETDVAL ;DEALLOCATE DEVICE
55 FCE9 30 0314 503 CMPB #PTR_K_PARAMETR,R5 ;GET TOKEN DESCRIPTOR
03 91 0317 504 BEQL 10$ ;ITEM TYPE PARAMETER?
04 13 031A 505 CLRL R9 ;YES, PROCESS IT
59 D4 031C 506 BRB 90$ ;NO, ASSUME /ALL
OF 11 031E 507 10$: BSBW DCL$COMPSTRING ;DEALLOCATE THEM ALL
79 FCDD 30 0320 508 MOVQ R1,-(R9) ;REMOVE EXTERNAL QUOTATION MARKS
FF A241 3A 91 0326 509 CMPB #^A/;/,-1(R2)[R1] ;SAVE LOGICAL NAME
02 12 032B 510 BNEQ 90$ ;STRING END WITH A COLON
69 D7 032D 511 DECL (R9) ;BR IF NO
032F 512 90$: $DALLOC_S (R9) ;REMOVE COLON FROM STRING
05 033A 513 RSB ;DEALLOCATE DEVICE
;
```



```
033B 515 .SBTTL DEASSIGN LOGICAL NAME EQUIVALENCE
033B 516 :+
033B 517 : DCL$DEASSIGN - DEASSIGN LOGICAL NAME EQUIVALENCE
033B 518 :
033B 519 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE DEASSIGN DCL$
033B 520 : COMMAND.
033B 521 :
033B 522 : INPUTS:
033B 523 :
033B 524 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
033B 525 : R9 = ADDRESS OF SCRATCH STACK.
033B 526 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
033B 527 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
033B 528 :
033B 529 : OUTPUTS:
033B 530 :
033B 531 : THE SPECIFIED LOGICAL NAME EQUIVALENCE OR ALL LOGICAL NAME EQUIVALENCES
033B 532 : ARE DEASSIGNED.
033B 533 : -
033B 534 :
033B 535 DCL$DEASSIGN::
033B 536 BSBW COMMON_QUAL ;DEASSIGN LOGICAL NAME EQUIVALENCE
033E 537 CLRL R7 ;PROCESS COMMON QUALIFIERS
0340 538 BBC #DEF_V,QUAL(R8),3$ ;ASSUME DOING /ALL
0345 539 BBS #LOG_V,QUAL(R8),5$ ;SKIP IF DEFAULTED
034A 540 3$: MOVQ LOGNAM(R8),R1 ;BR IF DOING /ALL
034E 541 BSBW DCL$COMPSTRING ;GET LOGICAL NAME
0351 542 MOVQ R1,LOGNAM(R8) ;REMOVE EXTERNAL QUOTATION MARKS
0355 543 MOVAQ LOGNAM(R8),R7 ;SAVE LOGICAL NAME
0359 544 CMPB #^A/:/,-1(R2)[R1] ;COPY THE DESCRIPTOR ADDRESS
035E 545 BNEQ 5$ ;STRING END WITH A COLON
0360 546 DECL LOGNAM(R8) ;BR IF NO
0363 547 5$: BSBB TESTOUT ;REMOVE COLON FROM STRING
0365 548 BEQL 10$ ;IS LOGICAL NAME SYSS$OUTPUT?
0367 549 $DELLNM,S TABNAM=TABNAM(R8),- ;YES, THEN SKIP
0367 550 LOGNAM=(R7),- ;DEASSIGN LOGICAL NAME EQUIVALENCE
0367 551 ACMODE=ACMODE(R8)
0376 552 TSTL R7 ;DEASSIGN/ALL?
0378 553 BEQL 20$ ;YES, THEN RECREATE SYSS$OUTPUT
037A 554 RSB
037B 555
037B 556 10$: MOVAB PRC_W_OUTIFI(R11),R2 ;GET ADDRESS OF SYSS$OUTPUT INFORMATION
0380 557 MOVL PRC_L_IDFLNK(R11),R8 ;GET ADDRESS OF CURRENT IDF BLOCK
0385 558 BSBW DCL$RESTORE_OUTPUT ;RESTORE PROCESS PERMANENT SYSS$OUTPUT
0388 559 20$: MOVL PRC_L_IDFLNR(R11),R8 ;GET ADDRESS OF CURRENT IDF BLOCK
038D 560 BSBW DCL$CREATE_OUTPUT ;CREATE SYSS$OUTPUT LOGICAL NAME
0390 561 RSB
```

0089 30
57 D4
05 08 A8 02 E1
19 08 A8 00 E0
51 18 A8 7D
FCAF' 30
18 A8 51 7D
57 18 A8 7E
FF A241 3A 91
03 12
18 A8 D7
2C 10
14 13
57 D5
OE 13
05 037A
037B 555
52 0114 CB 9E
58 00BC CB D0
FC78' 30
58 00BC CB D0
FC70' 30
05 0390


```
0391 563 .SBTTL TEST IF LOGICAL NAME IS SYSS$OUTPUT
0391 564 :
0391 565 : SUBROUTINE TO TEST IF LOGICAL NAME IS SYSS$OUTPUT
0391 566 :
0391 567 : ON OUTPUT, 'Z'= 1 IF SYSS$OUTPUT IS SPECIFIED
0391 568 :
0391 569 : CLOBBERS R0-R3
0391 570 :
0391 571 TESTOUT:
18 A8 D5 0391 572 TSTL LOGNAM(R8) ;WAS A LOGICAL NAME SPECIFIED?
29 08 A8 01 E0 0394 573 BEQL 20$ ;RETURN IF NOT
OC A8 03 D1 0396 574 BBS #ATTR_V,QUAL(R8),20$ ;BRANCH IF ATTRIBUTES SPECIFIED
23 13 0398 575 CMPL #PSL$C_USER,ACMODE(R8) ;IS LOGICAL NAME USER MODE?
10 A8 FC66 CF 91 039F 576 BEQL 20$ ;YES, THEN RETURN
14 B8 10 A8 29 03A1 577 CMPB LNM$PROCESS,TABNAM(R8) ;COMPARE LENGTH OF TABLE NAME
FC5B CF 12 03A7 578 BNEQ 20$ ;RETURN IF NOT EQUAL
18 A8 FC49 CF 91 03A9 579 CMPC TABNAM(R8),@TABNAM+4(R8) ;COMPARE ACTUAL STRING
09 12 03AE 580 LNM$PROCESS+1
1C B8 18 A8 29 03B1 581 BNEQ 20$ ;RETURN IF NOT EQUAL
FC3E CF 91 03B3 582 CMPB OUTPUTNAM,LOGNAM(R8) ;COMPARE LENGTH OF OUTPUT
05 05 03B9 583 BNEQ 20$ ;RETURN IF NOT EQUAL
01 D5 03BB 584 CMPC LOGNAM(R8),@LOGNAM+4(R8) ;COMPARE ACTUAL STRING
05 05 03C0 585 OUTPUTNAM+1
03C3 586 10$: RSB
03C4 587
03C4 588 20$: TSTL #1 ;SET FAILURE STATUS
03C6 589 RSB
```



```
03C7 591      .SBTTL PROCESS COMMON COMMAND QUALIFIERS
03C7 592      :
03C7 593      : SUBROUTINE TO PROCESS COMMON COMMAND QUALIFIERS
03C7 594      :
03C7 595      : ON INPUT, R9 = ADDRESS OF SCRATCH STACK
03C7 596      :
03C7 597      : ON OUTPUT, SCRATCH STACK LOOKS LIKE
03C7 598      :
03C7 599      :      <-- R9 initially
03C7 600      :
03C7 601      :      Logical name      LOGNAM(R8)
03C7 602      :      descriptor
03C7 603      :
03C7 604      :      Table name      TABNAM(R8)
03C7 605      :      descriptor
03C7 606      :
03C7 607      :      Access mode    ACMODE(R8)
03C7 608      :
03C7 609      :      Qual flags     QUAL(R8)
03C7 610      :
03C7 611      :      Def name attr  NAME_ATTR(R8)
03C7 612      :
03C7 613      :      Def tran attr  TRAN_ATTR(R8) <-- R8,R9 finally
03C7 614      :
03C7 615      :
03C7 616      :
03C7 617      COMMON_QUAL:
03C7 618      CLRQ      -(R9)
03C7 619      MOVAB     LNMSPROCESS,R5
03C7 620      MOVZBL    (R5)+,R4
03C7 621      MOVQ      R4,-(R9)
03C7 622      MOVL     #PSL$C_SUPER,-(R9)
03C7 623      MOVL     #LOG_M,-(R9)
03C7 624      MOVL     #LNMSM_CRELOG,-(R9)
03C7 625      CLRL     -(R9)
03C7 626      CLRL     -(R9)
03C7 627      MOVL     R9,R8
03C7 628      03E1 628
03C7 629 10$: BSBW     DCL$GETDVAL
03C7 630 20$: CMPB     #PTR_K_PARAMETR,R5
03C7 631      BGTRU    30$
03C7 632      BEQL     25$
03C7 633      BRW      210$
03C7 634 25$: BRW      200$
03C7 635 30$: BSBW     DCL$GETNVAL
03C7 636      CMPL     R1,#CLISK_DEFI_USER
03C7 637      BEQL     100$
03C7 638      CMPL     R1,#CLISK_DEFI_SUPE
03C7 639      BEQL     110$
03C7 640      CMPL     R1,#CLISK_DEFI_EXEC
03C7 641      BEQL     120$
03C7 642      CMPL     R1,#CLISK_DEFI_PROC
03C7 643      BEQL     130$
03C7 644      CMPL     r1,#CLISK_DEFI_JOB
03C7 645      BEQL     135$
03C7 646      CMPL     R1,#CLISK_DEFI_GROU
03C7 647      BEQL     140$

55 FC3E CF 7C 03C7 618 COMMON_QUAL:
54 85 9E 03C7 618 CLRQ      -(R9)
79 54 9A 03C9 619 MOVAB     LNMSPROCESS,R5
79 02 7D 03CE 620 MOVZBL    (R5)+,R4
79 01 D0 03D1 621 MOVQ      R4,-(R9)
79 01 D0 03D4 622 MOVL     #PSL$C_SUPER,-(R9)
79 01 D0 03D7 623 MOVL     #LOG_M,-(R9)
79 01 D0 03DA 624 MOVL     #LNMSM_CRELOG,-(R9)
79 01 D0 03DA 625 CLRL     -(R9)
79 01 D0 03DC 626 CLRL     -(R9)
58 59 D0 03DE 627 MOVL     R9,R8
58 59 D0 03E1 628
55 FC1C' 30 03E1 629 10$: BSBW     DCL$GETDVAL
55 03 91 03E4 630 20$: CMPB     #PTR_K_PARAMETR,R5
55 08 1A 03E7 631      BGTRU    30$
55 03 13 03E9 632      BEQL     25$
55 0155 31 03EB 633      BRW      210$
55 014E 31 03EE 634 25$: BRW      200$
55 FC0C' 30 03F1 635 30$: BSBW     DCL$GETNVAL
00000000'8F 51 D1 03F4 636      CMPL     R1,#CLISK_DEFI_USER
00000000'8F 66 13 03FB 637      BEQL     100$
00000000'8F 51 D1 03FD 638      CMPL     R1,#CLISK_DEFI_SUPE
00000000'8F 64 13 0404 639      BEQL     110$
00000000'8F 51 D1 0406 640      CMPL     R1,#CLISK_DEFI_EXEC
00000000'8F 61 13 040D 641      BEQL     120$
00000000'8F 51 D1 040F 642      CMPL     R1,#CLISK_DEFI_PROC
00000000'8F 5E 13 0416 643      BEQL     130$
00000000'8F 51 D1 0418 644      CMPL     r1,#CLISK_DEFI_JOB
00000000'8F 63 13 041F 645      BEQL     135$
00000000'8F 51 D1 0421 646      CMPL     R1,#CLISK_DEFI_GROU
00000000'8F 71 13 0428 647      BEQL     140$
```



```
00000000'8F 51 D1 042A 648 CMPL R1,#CLISK_DEFI_SYST :QUALIFIER MATCH?
7F 13 0431 649 BEQL 150$ :YES, THEN BRANCH
00000000'8F 51 D1 0433 650 CMPL R1,#CLISK_DEFI_TABL :QUALIFIER MATCH?
03 12 043A 651 BNEQ 60$ :NO, CHECK NEXT
008A 31 043C 652 BRW 160$ :YES, THEN BRANCH
00000000'8F 51 D1 043F 653 60$: CMPL R1,#CLISK_DEFI_LOG :QUALIFIER MATCH? (ALSO DEASSIGN/ALL
03 12 0446 654 BNEQ 70$ :NO, CHECK NEXT
0096 31 0448 655 BRW 170$ :YES, THEN BRANCH
00000000'8F 51 D1 044B 656 70$: CMPL R1,#CLISK_DEFI_NAME :QUALIFIER MATCH?
03 12 0452 657 BNEQ 80$ :NO, CHECK NEXT
009B 31 0454 658 BRW 180$ :YES, THEN BRANCH
00000000'8F 51 D1 0457 659 80$: CMPL R1,#CLISK_DEFI_TRAN :QUALIFIER MATCH?
81 12 045E 660 BNEQ 10$ :NO, IGNORE IT
00B3 31 0460 661 BRW 190$ :YES, THEN BRANCH
0463 662
OC AB 03 D0 0463 663 100$: MOVL #PSL$C_USER,ACMODE(R8) :SET USER MODE
0082 31 0467 664 BRW 171$ :GET NEXT TOKEN
OC AB 02 D0 046A 665 110$: MOVL #PSL$C_SUPER,ACMODE(R8) :SET SUPER MODE
7C 11 046E 666 BRB 171$ :GET NEXT TOKEN
OC AB 01 D0 0470 667 120$: MOVL #PSL$C_EXEC,ACMODE(R8) :SET EXEC MODE
76 11 0474 668 BRB 171$ :GET NEXT TOKEN
0476 669
55 FB91 CF 9E 0476 670 130$: MOVAB LNMS$PROCESS,R5 :USE PROCESS LOGICAL NAME TABLE
54 85 9A 047B 671 MOVZBL (R5)+,R4 :
10 AB 54 7D 047E 672 MOVQ R4,TABNAM(R8) :SAVE THE DESCRIPTOR
68 11 0482 673 BRB 171$ :GET NEXT TOKEN
0484 674
55 FB83 CF 9E 0484 675 135$: MOVAB LNMS$PROCESS,R5 :ASSUME /NOJOB
05 53 00 E0 0489 676 BBS #PTR V NEGATE-PTR_V_FLAGS,R3,137$ :BR IF /NOJOB
55 FB86 CF 9E 048D 677 MOVAB LNMS$JOB,R5 :USE JOB LOGICAL NAME TABLE
54 85 9A 0492 678 137$: MOVZBL (R5)+,R4 :
10 AB 54 7D 0495 679 MOVQ R4,TABNAM(R8) :SAVE THE DESCRIPTOR
51 11 0499 680 BRB 171$ :GET NEXT TOKEN
049B 681
55 FB6C CF 9E 049B 682 140$: MOVAB LNMS$PROCESS,R5 :ASSUME /NOGROUP
05 53 00 E0 04A0 683 BBS #PTR V NEGATE-PTR_V_FLAGS,R3,147$ :BR IF /NOGROUP
55 FB77 CF 9E 04A4 684 MOVAB LNMS$GROUP,R5 :USE GROUP LOGICAL NAME TABLE
54 85 9A 04A9 685 147$: MOVZBL (R5)+,R4 :
10 AB 54 7D 04AC 686 MOVQ R4,TABNAM(R8) :SAVE THE DESCRIPTOR
3A 11 04B0 687 BRB 171$ :GET NEXT TOKEN
04B2 688
55 FB55 CF 9E 04B2 689 150$: MOVAB LNMS$PROCESS,R5 :ASSUME /NOSYSTEM
05 53 00 E0 04B7 690 BBS #PTR V NEGATE-PTR_V_FLAGS,R3,157$ :BR IF /NOSYSTEM
55 FB6A CF 9E 04BB 691 MOVAB LNMS$SYSTEM,R5 :USE SYSTEM LOGICAL NAME TABLE
54 85 9A 04C0 692 157$: MOVZBL (R5)+,R4 :
10 AB 54 7D 04C3 693 MOVQ R4,TABNAM(R8) :SAVE THE DESCRIPTOR
23 11 04C7 694 BRB 171$ :GET NEXT TOKEN
04C9 695
55 FB3E CF 9E 04C9 696 160$: MOVAB LNMS$PROCESS,R5 :ASSUME PROCESS LOGICAL NAME TABLE
54 85 9A 04CE 697 MOVZBL (R5)+,R4 :
10 AB 54 7D 04D1 698 MOVQ R4,TABNAM(R8) :SAVE THE DESCRIPTOR
14 53 E8 04D5 699 BLBS R3,171$ :BRANCH IF NEGATED
FB25' 30 04D8 700 BSBW DCL$GETDVAL :GET THE TABLE NAME
10 AB 51 7D 04DB 701 MOVQ R1,TABNAM(R8) :SAVE IT AWAY
0B 11 04DF 702 BRB 171$ :GET NEXT TOKEN
04E1 703
0B AB 05 C8 04E1 704 170$: BISL #LOG_M!DEF_M,QUAL(R8) :ASSUME /LOG OR /ALL
```


08	A8	04 53	E9	04E5	705	BLBC	R3,171\$:BRANCH IF SO
		01	CA	04E8	706	BICL	#LOG_M,QUAL(R8)	:SET /NOLOG OR /NOALL
		FEF2	31	04EC	707 171\$:	BRW	10\$:GET NEXT TOKEN
		FEF2	31	04EF	708 172\$:	BRW	20\$:PROCESS THE TOKEN
				04F2	709			
08	A8	02	C8	04F2	710 180\$:	BISL	#ATTR_M,QUAL(R8)	:MARK /NAME ATTRIBUTES SEEN
		04 A8	D4	04F6	711	CLRL	NAME_ATTR(R8)	:ZERO INITIAL ATTRIBUTES
		FO 53	E8	04F9	712	BLBS	R3,171\$:BRANCH IF NEGATED
		FB01'	30	04FC	713 182\$:	BSBW	DCL\$GETDVAL	:GET ITS VALUE
		02	55	04FF	714	CMPB	R5,#PTR_K_QUALVALU	:SKIP IF NOT A QUALIFIER VALUE
		EB	12	0502	715	BNEQ	172\$:
43	8F	62	91	0504	716	CMPB	(R2),#^A/C/	:CONFINE KEYWORD?
		06	12	0508	717	BNEQ	184\$:NO, THEN BRANCH
04	A8	02	C8	050A	718	BISL	#LNMSM_CONFINE,NAME_ATTR(R8)	:SET THE ATTRIBUTE
		EC	11	050E	719	BRB	182\$:GET NEXT VALUE
04	A8	01	C8	0510	720 184\$:	BISL	#LNMSM_NO_ALIAS,NAME_ATTR(R8)	:SET THE ATTRIBUTE
		E6	11	0514	721	BRB	182\$:GET NEXT VALUE
				0516	722			
08	A8	02	C8	0516	723 190\$:	BISL	#ATTR_M,QUAL(R8)	:MARK /TRANSLATION ATTRIBUTES SEEN
		68	D4	051A	724	CLRL	TRAN_ATTR(R8)	:ZERO INITIAL ATTRIBUTES
		CD 53	E8	051C	725	BLBS	R3,171\$:BRANCH IF NEGATED
		FADE'	30	051F	726 192\$:	BSBW	DCL\$GETDVAL	:GET ITS VALUE
		02	55	0522	727	CMPB	R5,#PTR_K_QUALVALU	:SKIP IF NOT A QUALIFIER VALUE
		C8	12	0525	728	BNEQ	172\$:
43	8F	62	91	0527	729	CMPB	(R2),#^A/C/	:CONCEALED KEYWORD?
		09	12	052B	730	BNEQ	194\$:NO, THEN BRANCH
68	00000100	8F	C8	052D	731	BISL	#LNMSM_CONCEALED,TRAN_ATTR(R8)	:SET THE ATTRIBUTE
		E9	11	0534	732	BRB	192\$:GET NEXT VALUE
68	00000200	8F	C8	0536	733 194\$:	BISL	#LNMSM_TERMINAL,TRAN_ATTR(R8)	:SET THE ATTRIBUTE
		E0	11	053D	734	BRB	192\$:GET NEXT VALUE
				053F	735			
18	A8	51	7D	053F	736 200\$:	MOVQ	R1,LOGNAM(R8)	:GET FIRST PARAMETER DESCRIPTOR
			05	0543	737 210\$:	RSB		:
				0544	738			

```
0544 740 .SBTTL GET TRANSLATION ATTRIBUTES
0544 741 :
0544 742 : SUBROUTINE TO PROCESS TRANSLATION ATTRIBUTES
0544 743 :
0544 744 : R0 = QUALIFIER SEEN FLAG
0544 745 : R1/R2 = DESCR OF NEXT PARAMETER
0544 746 : R3 = TRANSLATION ATTRIBUTES
0544 747 : R5 = TYPE OF LAST TOKEN SEEN
0544 748 :
0544 749 GET_TRAN ATTR:
0544 750 CLRQ -(SP)
0546 751 10$: BSBW DCL$GETDVAL
0549 752 20$: CMPB #PTR_K_PARAMETR,R5
054C 753 BLEQ 90$
054E 754 MOVL #1,4(SP)
0552 755 CLRL (SP)
0554 756 BISL #ATTR_M,QUAL(R8)
0558 757 BLBS R3,10$
055B 758 30$: BSBW DCL$GETDVAL
055E 759 CMPB R5,#PTR_K_QUALVALU
0561 760 BNEQ 20$
0563 761 CMPB (R2),#^A/C/
0567 762 BNEQ 40$
0569 763 BISL #LNMSM_CONCEALED,(SP)
0570 764 BRB 30$
0572 765 40$: BISL #LNMSM_TERMINAL,(SP)
0579 766 BRB 30$
057B 767
057B 768 90$: POPL R3
057E 769 POPL R0
0581 770 RSB
```

```
:GET TRAN ATTRIBUTES
:ASSUME QUALIFIER NOT SEEN
:GET NEXT DESCRIPTOR VALUE
:ITEM TYPE PARAMETER?
:IF LEQ END OF LINE OR PARAMETER
:MARK QUALIFIER SEEN
:RESET ATTRIBUTES
:MARK /TRANSLATION_ATTRIBUTES SEEN
:BRANCH IF NEGATED
:GET ITS VALUE
:SKIP IF NOT A QUALIFIER VALUE
:
:CONCEALED KEYWORD?
:NO, THEN BRANCH
:SET THE ATTRIBUTE
:GET NEXT VALUE
:SET THE ATTRIBUTE
:GET NEXT VALUE
:
:RETURN ATTRIBUTES AND STATUS
:
:
```



```
0582 772 .SBTTL CREATE LOGICAL NAME TABLE
0582 773 :+
0582 774 :DCL$CRETABLE - CREATE LOGICAL NAME TABLE
0582 775 :
0582 776 :THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE
0582 777 :CREATE/NAME_TABLE COMMAND.
0582 778 :
0582 779 :INPUTS:
0582 780 :
0582 781 :R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0582 782 :R9 = ADDRESS OF SCRATCH STACK.
0582 783 :R10 = BASE ADDRESS OF COMMAND WORK AREA.
0582 784 :R11 = BASE ADDRESS OF PROCESS WORK AREA.
0582 785 :
0582 786 :OUTPUTS:
0582 787 :
0582 788 :THE SPECIFIED LOGICAL NAME TABLE IS CREATED.
0582 789 :-
0582 790 :
0582 791 DCL$CRETABLE::
0582 792 CLRL -(R9)
0584 793 MOVZWL #DEF_PROT,-(R9)
0589 794
0589 795
0589 796 MOVL #PSL$C_SUPER,-(R9)
058C 797 CLRL -(R9)
058E 798 MOVL #LNMSM_CREATE_IF,-(R9)
0595 799 MOVAB LNMSPROCESS_DIRECTORY,R1
059A 800 MOVZBL (R1)+,R0
059D 801 MOVQ R0,-(R9)
05A0 802
05A0 803 10$: BSBW DCL$GETDVAL
05A3 804 20$: CMPB #PTR_K_PARAMETR,R5
05A6 805 BNEQ 30$
05A8 806 BRW 200$
05AB 807
05AB 808 30$: BSBW DCL$GETNVAL
05AE 809 CMPL R1,#CLISK_CRET_USER
05B5 810 BEQL 100$
05B7 811 CMPL R1,#CLISK_CRET_SUPE
05BE 812 BEQL 110$
05C0 813 CMPL R1,#CLISK_CRET_EXEC
05C7 814 BEQL 120$
05C9 815 CMPL R1,#CLISK_CRET_QUOT
05D0 816 BEQL 130$
05D2 817 CMPL R1,#CLISK_CRET_ATTR
05D9 818 BEQL 140$
05DB 819 CMPL R1,#CLISK_CRET_PARE
05E2 820 BEQL 150$
05E4 821 CMPL R1,#CLISK_CRET_PROT
05EB 822 BNEQ 40$
05ED 823 BRW 160$
05F0 824 40$: CMPL R1,#CLISK_CRET_LOG
05F7 825 BNEQ 10$
05F9 826 BRW 175$
05FC 827
05FC 828 100$: MOVL #PSL$C_USER,16(R9)
```

```
:CREATE A LOGICAL NAME TABLE
:ASSUME /LOG
:SET DEFAULT TABLE PROTECTION
:(SY:RWED,OW:RWED,GR,WO)

:ASSUME SUPERVISOR MODE ACMODE
:ASSUEM /NOQUOTA
:ASSUME /NOATTR
:ASSUME /NOPARENT
:
:SAVE THE DESCRIPTOR

:GET NEXT DESCRIPTOR VALUE
:ITEM TYPE PARAMETER?
:NO, THEN PROCESS QUALIFIER
:YES, THEN DONE

:GET QUALIFIER NUMBER
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:YES, THEN BRANCH
:QUALIFIER MATCH?
:NO
:YES, THEN BRANCH
:QUALIFIER MATCH
:NO, GET NEXT TOKEN
:YES, THEN BRANCH

:SET USER MODE
```


10 A9	9E	11	0600	829	BRB	10\$:GET NEXT TOKEN		
	02	D0	0602	830	110\$:	MOVL	#PSL\$C_SUPER,16(R9)		
	98	11	0606	831	BRB	10\$:SET SUPER MODE		
10 A9	01	D0	0608	832	120\$:	MOVL	#PSL\$C_EXEC,16(R9)		
	92	11	060C	833	BRB	10\$:GET NEXT TOKEN		
			060E	834					
0C A9	D4	060E	835	130\$:	CLRL	12(R9)	:ASSUME /NOQUOTA		
10 53	E8	0611	836		BLBS	R3,131\$:BRANCH IF SO		
F9E9'	30	0614	837		BSBW	DCL\$GETDVAL	:GET QUOTA VALUE		
52 51	7D	0617	838		MOVQ	R1,R2	:COPY DESCRIPTOR		
51 01	D0	061A	839		MOVL	#1,R1	:SET DECIMAL RADIX		
F9E0'	30	061D	840		BSBW	DCL\$CNVNOEDIT	:CONVERT NUMBER TO BINARY		
0C A9	51	D0	0620	841	MOVL	R1,12(R9)	:SAVE THE VALUE AWAY		
FF79	31	0624	842	131\$:	BRW	10\$:GET NEXT TOKEN		
FF79	31	0627	843	132\$:	BRW	20\$:PROCESS NEXT TOKEN		
			062A	844					
08 A9	01000000	8F	D0	062A	845	140\$:	MOVL	#LNMSM_CREATE_IF,8(R9)	:ASSUME /NOATTRIBUTES
	EF	53	E8	0632	846		BLBS	R3,131\$:BRANCH IF SO
	F9C8'	30	0635	847	142\$:	BSBW	DCL\$GETDVAL	:GET ATTRIBUTE KEYWORD	
02 55	91	0638	848		CMPB	R5,#PTR_K_QUALVALU	:SKIP IF NOT A QUALIFIER VALUE		
EA	12	063B	849		BNEQ	132\$			
4E 8F	62	91	063D	850	CMPB	(R2),#^A/N/	:NO_ALIAS KEYWORD?		
06	12	0641	851		BNEQ	144\$:NO, THEN BRANCH		
08 A9	01	C8	0643	852	BISL	#LNMSM_NO_ALIAS,8(R9)	:SET THE ATTRIBUTE		
EC	11	0647	853		BRB	142\$:GET NEXT VALUE		
43 8F	62	91	0649	854	144\$:	CMPB	(R2),#^A/C/	:CONFINE KEYWORD?	
06	12	064D	855		BNEQ	144\$:NO, THEN BRANCH		
08 A9	02	C8	064F	856	BISL	#LNMSM_CONFINE,8(R9)	:SET THE ATTRIBUTE		
E0	11	0653	857		BRB	144\$:GET NEXT VALUE		
08 A9	01000000	8F	CA	0655	858	146\$:	BICL	#LNMSM_CREATE_IF,8(R9)	:CLEAR THE ATTRIBUTE
	D6	11	065D	859	BRB	142\$:GET NEXT VALUE		
			065F	860					
51 F9E1	CF	9E	065F	861	150\$:	MOVAB	LNMSPROCESS_DIRECTORY,R1	:ASSUME /NOPARENT	
50 81	9A	0664	862		MOVZBL	(R1)+,R0			
69 50	7D	0667	863		MOVQ	R0,(R9)	:SAVE THE DESCRIPTOR		
B7 53	E8	066A	864		BLBS	R3,131\$:BRANCH IF SO		
F990'	30	066D	865		BSBW	DCL\$GETDVAL	:GET TABLE NAME		
69 51	7D	0670	866		MOVQ	R1,(R9)	:SAVE THE DESCRIPTOR		
AF	11	0673	867		BRB	131\$:GET NEXT TOKEN		
			0675	868					
			0675	869					
			0675	870					
			0675	871	160\$:	BSBW	DCL\$GETDVAL	:GET NEXT DESCRIPTOR VALUES	
55 02	91	0678	872		CMPB	#PTR_K_QUALVALU,R5	:QUALIFIER VALUE?		
AA	12	067B	873		BNEQ	132\$:NO, ALL DONE WITH PROTECTION.		
			067D	874					
FA07 CF	04	62	3A	067D	875		LOCC	(R2),#4,CLASS	:LOCATE PROTECTION CLASS
		3A	13	0683	876		BEQL	180\$:IF EQL INVALID CLASS
				0685	877				
		50	D7	0685	878		DECL	R0	:CALCULATE STARTING BIT NUMBER
58 50	04	C5	0687	879		MULL3	#4,R0,R8		
14 A9	04	58	0F	F0	068B	880	INSV	#^XF,R8,#4,20(R9)	:ASSUME NO ACCESS
		54	02	91	0691	881	CMPB	#PTR_K_COLON,R4	:PROTECTION VALUE SPECIFIED?
		DF	12	0694	882		BNEQ	160\$:NO, TRY TO GET NEXT CLASS
				0696	883				
		F967'	30	0696	884		BSBW	DCL\$GETDVAL	:GET PROTECTION VALUE DESCRIPTOR
57 51	D0	0699	885		MOVL	R1,R7		:SAVE LENGTH OF VALUE STRING	


```
F9E4 CF 04 82 3A 069C 886
                23 13 069C 887 165$: LOCC (R2)+, #4, ACCESS ;LOCATE PROTECTION CODE
                50 58 D7 06A2 888 ;IF EQU INVALID PROTECTION CODE
00 14 A9 50 58 C0 06A4 889 ;CALCULATE RELATIVE BIT NUMBER
                EB 57 E5 06A6 890 ;CALCULATE ACTUAL BIT NUMBER
                C2 11 F5 06A9 891 ;ALLOW SPECIFIED ACCESS
                06AE 892 170$: SOBGTR R7, 165$ ;ANY MORE TO SCAN?
                06B1 893 BRB 160$ ;NO, TRY TO GET NEXT CLASS
                06B3 894
                06B3 895 :
                06B3 896 :
                18 A9 94 06B3 897 175$: CLRB 24(R9) ;ASSUME /LOG
                03 53 E9 06B6 898 ;IT IS /LOG. FLAG OK AS IS
                18 A9 96 06B9 899 ;IT IS /NOLOG. SET FLAG
                FF65 31 06BC 900 176$: BRW 131$ ;GET NEXT TOKEN
                06BF 901
                06BF 902 180$: STATUS IVKEYW ;SET INVALID KEYWORD
                05 06C6 903 RSB ;EXIT
                05 06C7 904 185$: STATUS IVPROT ;SET INVALID PROTECTION CODE
                06CE 905 RSB ;EXIT
                06CF 906
                79 51 7D 06CF 907 200$: MOVQ R1, -(R9) ;SAVE THE LOGICAL NAME DESR
                06D2 908
                06D2 909 $CRELNT_S ATTR=16(R9),- ;CREATE THE TABLE
                06D2 910 -QUOTA=20(R9),-
                06D2 911 -TABNAM=(R9),-
                06D2 912 -PARTAB=8(R9),-
                06D2 913 -ACMODE=24(R9),-
                06D2 914 -PROMSK=28(R9)
                06EE 915
                06EE 916 :
                06EE 917 :
                06EE 918 :
                40 20 A9 E8 06EE 919 :
                50 01 B1 06F2 920 :
                09 12 06F5 921 :
50 0003DE0B 8F D0 06F7 922 :
                28 11 06FE 923 :
                0700 924 :
                50 0631 8F B1 0700 925 210$: CMPW #SS$_SUPERSEDE, R0 ;EXISTING TABLE SUPERSEDED?
                09 12 0705 926 BNEQ 220$ ;NO, CHECK OTHER STATUS
50 0003DE13 8F D0 0707 927 MOVL #CLIS$_TABSUPER, R0 ;YES, TELL USER
                18 11 070E 928 BRB 270$
                0710 929 :
                50 06B1 8F B1 0710 930 220$: CMPW #SS$_LNMCREATED, R0 ;NEW TABLE CREATED?
                18 12 0715 931 BNEQ 280$ ;NO, CHECK FOR CREATION ERROR
50 0003DE1B 8F D0 0717 932 MOVL #CLIS$_TABNOTFND, R0 ;ASSUME /SUPERSEDE SPECIFIED
10 A9 01000000 8F D3 071E 933 BITL #LNMSM_CREATE_IF, 16(R9) ;WAS /SUPERSEDE SPECIFIED?
                OD 12 0726 934 BNEQ 285$ ;IF NOT, SKIP MESSAGE
                0728 935 :
                69 9F 0728 936 270$: PUSHAB (R9) ;GET TABLE NAME DESCRIPTOR
                51 01 D0 072A 937 MOVL #1, R1 ;SET FAO COUNT
                F8D0 30 072D 938 BSBW DCL$FORMMSG ;OUTPUT MESSAGE
                03 11 0730 939 BRB 285$ ;EXIT WITH STATUS NORMAL
                07 50 E9 0732 940
                0732 941 280$: BLBC R0, 290$ ;BRANCH IF ERROR
                0735 942 285$: STATUS NORMAL ;RETURN SUCCESS
```

LOGICAL
V04-000

- LOGICAL NAME COMMANDS
CREATE LOGICAL NAME TABLE

L 16

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
4-SEP-1984 23:41:57 [DCL.SRC]LOGICAL.MAR;1

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05 073C 943 290\$: RSB

;


```

073D 945 .SBTTL SHOW LOGICAL NAME EQUIVALENCES
073D 946 :+
073D 947 : DCL$SHOWTRAN - SHOW LOGICAL NAME TRANSLATION
073D 948 :
073D 949 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SHOW LOGICAL
073D 950 : NAME EQUIVALENCES DCLS COMMAND.
073D 951 :
073D 952 : INPUTS:
073D 953 :
073D 954 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
073D 955 : R9 = ADDRESS OF SCRATCH STACK.
073D 956 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
073D 957 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
073D 958 :
073D 959 : OUTPUTS:
073D 960 :
073D 961 : THE SPECIFIED LOGICAL NAME EQUIVALENCE FROM THE PROCESS
073D 962 : LOGICAL NAME TABLE IS WRITTEN TO THE OUTPUT STREAM.
073D 963 :-
073D 964 : DCL$SHOWTRAN:: ;SHOW THE TRANSLATION FOR A NAME
073D 965 :
073D 966 : ++
073D 967 : Stack layout:
073D 968 :
073D 969 : -----
073D 970 : | Table name |
073D 971 : | descriptor |
073D 972 : |-----|
073D 973 : | Logical name |
073D 974 : | descriptor |
073D 975 : |-----|
073D 976 : | Equival name |
073D 977 : | descriptor |
073D 978 : |-----|
073D 979 : | Item list ... |
073D 980 : |-----|
073D 981 :
073D 982 : --
073D 983 :
073D 984 : Parse the command string.
073D 985 :
51 F8F3 CF 9E 073D 986 : MOVAB LNMSDCL LOGICAL,R1 ;SET DEFAULT LOGICAL NAME TABLE
50 81 9A 0742 987 : MOVZBL (R1)+,R0 ;
7E 50 7D 0745 988 : MOVQ R0,-(SP) ;
0748 989 :
55 F8B5' 30 0748 990 10$: BSBW DCL$GETDVAL ;GET FIRST TOKEN
55 03 91 074B 991 : CMPB #PTR_K_PARAMETER,R5 ;IS IT A PARAMETER
55 06 12 074E 992 : BNEQ 15$ ;NO, THEN PROCESS /TABLE
F4 53 01 E0 0750 993 : ASSUME PTR_V_KEYWORD EQ 21 ;
16 11 0754 994 : BBS #1,R3,10$ ;IGNORE OPTION KEYWORD
0756 995 : BRB 20$ ;PROCESS THE LOGICAL NAME
0756 996 :
51 F8DA CF 9E 0756 997 15$: MOVAB LNMSDCL LOGICAL,R1 ;ASSUME /NOTABLE
50 81 9A 075B 998 : MOVZBL (R1)+,R0 ;
6E 50 7D 075E 999 : MOVQ R0,(SP) ;
E4 53 E8 0761 1000 : BLBS R3,10$ ;BRANCH IF SO
F899' 30 0764 1001 : BSBW DCL$GETDVAL ;GET TABLE NAME

```


Address	Hex	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	Op418	Op419	Op420	Op421	Op422	Op423	Op424	Op425	Op426	Op427	Op428	Op429	Op430	Op431	Op432	Op433	Op434	Op435	Op436	Op437	Op438	Op439	Op440	Op441	Op442	Op443	Op444	Op445	Op446	Op447	Op448	Op449	Op450	Op451	Op452	Op453	Op454	Op455	Op456	Op457	Op458	Op459	Op460	Op461	Op462	Op463	Op464	Op46
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LOGICAL
V04-000

- LOGICAL NAME COMMANDS
SHOW LOGICAL NAME EQUIVALENCES

C 1

16-SEP-1984 00:08:00
4-SEP-1984 23:41:57

VAX/VMS Macro V04-00
[DCL.SRC]LOGICAL.MAR;1

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5E	2C	A7	9E	0806	1059	MOVAB	44(R7),SP
51	68	7D	080A	1060	MOVQ	(R8),R1	
	F7F0	30	080D	1061	BSBW	DCL\$MSGOUT	
			0810	1062	STATUS	NORMAL	
		05	0817	1063	RSB		
			0818	1064			
			0818	1065			
					.END		

;RESTORE THE STACK
;GET OUTPUT MESSAGE PARAMETERS
;OUTPUT MESSAGE
;RETURN SUCCESS

LOGICAL
Symbol table

- LOGICAL NAME COMMANDS

D 1

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
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```

$ST1      = 00000000
$ST2      = 00000006
ACCESS    = 00000086 R      02
ACMODE    = 0000000C
ATTR_M    = 00000002
ATTR_V    = 00000001
CLASS     = 0000008A R      02
CLISK_ALLO_GENE ***** X      02
CLISK_CRET_ATTR ***** X      02
CLISK_CRET_EXEC ***** X      02
CLISK_CRET_LOG ***** X      02
CLISK_CRET_PARE ***** X      02
CLISK_CRET_PROT ***** X      02
CLISK_CRET_QUOT ***** X      02
CLISK_CRET_SUPE ***** X      02
CLISK_CRET_USER ***** X      02
CLISK_DEFI_EXEC ***** X      02
CLISK_DEFI_GROU ***** X      02
CLISK_DEFI_JOB ***** X      02
CLISK_DEFI_LOG ***** X      02
CLISK_DEFI_NAME ***** X      02
CLISK_DEFI_PROC ***** X      02
CLISK_DEFI_SUPE ***** X      02
CLISK_DEFI_SYST ***** X      02
CLISK_DEFI_TABL ***** X      02
CLISK_DEFI_TRAN ***** X      02
CLISK_DEFI_USER ***** X      02
CLIS_ALLOC = 0003DDE3
CLIS_IVKEYW = 00038060
CLIS_IVPROT = 00038070
CLIS_NORMAL = 00030001
CLIS_SUPERSEDE = 0003DDEB
CLIS_TABEXIST = 0003DE0B
CLIS_TABNOTFND = 0003DE1B
CLIS_TABSUPER = 0003DE13
COMMON_CRELNM = 000002AD R      02
COMMON_QUAL   = 000003C7 R      02
DCL$ALLOCATE  = 0000008E RG     02
DCL$ASSIGN    = 000001A3 RG     02
DCL$CNVNOEDIT ***** X      02
DCL$COMPRESS  ***** X      02
DCL$COMPSTRING ***** X      02
DCL$CREATE_OUTPUT ***** X      02
DCL$CRETABLE  = 00000582 RG     02
DCL$DEALLOCAT = 00000314 RG     02
DCL$DEASSIGN  = 0000033B RG     02
DCL$DEFINE    = 00000231 RG     02
DCL$FORMMSG   ***** X      02
DCL$GETDVAL   ***** X      02
DCL$GETNVAL   ***** X      02
DCL$MSGOUT    ***** X      02
DCL$OPEN_OUTPUT ***** X      02
DCL$RESTORE_OUTPUT ***** X      02
DCL$SHOWTRAN  = 0000073D RG     02
DEF_M         = 00000004
DEF_PROT      = 0000FF00
DEF_V         = 00000002

```

```

EQUAM      = 00000020
GET_TRAN_ATTR = 00000544 R      02
LNMSDCL_LOGICAL = 00000034 R      02
LNMSFILE_DEV = 0000005A R      02
LNMSGROUP   = 0000001F R      02
LNMSJOB     = 00000017 R      02
LNMSM_CONCEALED = 00000100
LNMSM_CONFINE = 00000002
LNMSM_CREATE_IF = 01000000
LNMSM_NO_ALIAS = 00000001
LNMSM_TERMINAL = 00000200
LNMSPROCESS = 0000000B R      02
LNMSPROCESS_DIRECTORY = 00000044 R      02
LNMSYSTEM   = 00000029 R      02
LNMS_ATTRIBUTES = 00000003
LNMS_STRING  = 00000002
LNMS_TABLE   = 00000004
LOGICALMSG   = 00000071 R      02
LOGNAM       = 00000018
LOG_M        = 00000001
LOG_V        = 00000000
NAME_ATTR    = 00000004
OUTPUTNAM    = 00000000 R      02
PRC_B_CONTINUE = 000000F3
PRC_B_DEFRADIX = 000000AE
PRC_B_EXMDEPMOD = 000000AD
PRC_B_EXMDEPWID = 000000AC
PRC_B_EXONLYL  = 0000012D
PRC_B_FLAGS2   = 000000AF
PRC_B_IMGFLAG  = 0C000078
PRC_B_OUTFLAGS = 0000012C
PRC_B_PROMPTLEN = 000000F0
PRC_C_LENGTH   = 00000534
PRC_G_COMMANDS = 00000133
PRC_G_PROMPT   = 000000F4
PRC_K_LENGTH   = 00000534
PRC_L_CURRKEY  = 00000048
PRC_L_EXMDEPADR = 000000A8
PRC_L_EXTARG   = 00000094
PRC_L_EXTBLK   = 0000008C
PRC_L_EXTCOD   = 0000009C
PRC_L_EXTHND   = 00000090
PRC_L_EXTPRM   = 00000098
PRC_L_IDFLNK   = 000000BC
PRC_L_IMGACTSTS = 00000080
PRC_L_INDCLOCK = 0000007C
PRC_L_INDEPTH  = 0000005C
PRC_L_INDFAB   = 0000001C
PRC_L_INDIRPRAB = 00000014
PRC_L_INDIRTRAB = 00000018
PRC_L_INPRAB   = 00000008
PRC_L_LASTKEY  = 0000004C
PRC_L_LSTSTATUS = 000000B0
PRC_L_ONCTLY   = 000000B8
PRC_L_ONERROR  = 0000006C
PRC_L_OUTOFBAND = 000000B4
PRC_L_OUTRAB   = 0000000C

```


LOGICAL
Symbol table

- LOGICAL NAME COMMANDS

E 1

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
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```

PRC_L_OUTRABCTX      00000118
PRC_L_PPFLIST        00000070
PRC_L_RECALLPTR      0000012F
PRC_L_RESTART        00000058
PRC_L_SAVAP          00000000
PRC_L_SAVFP          00000004
PRC_L_SEVERITY       00000050
PRC_L_SPWN           000000C0
PRC_L_STACKLM        000000A4
PRC_L_STACKPT        000000A0
PRC_L_STATUS         00000054
PRC_L_STS            00000084
PRC_L_STV            00000088
PRC_L_SYMBOL         00000060
PRC_L_TMBX           00000074
PRC_L_TRMLIST        00000010
PRC_Q_ALLOCREG       00000020
PRC_Q_COMMAND        000000E0
PRC_Q_FLUSHTIME      000000D0
PRC_Q_GLOBAL          00000028
PRC_Q_IMAGENAME      000000D8
PRC_Q_KEYPAD         00000040
PRC_Q_LABEL          00000030
PRC_Q_LOCAL          00000038
PRC_Q_SAVEPRIV       000000E8
PRC_T_OUTDVI         0000011C
PRC_W_ASTIOSB        000000C6
PRC_W_ASTRETN        000000C8
PRC_W_ASTSTATUS      000000C4
PRC_W_ATTMBX         0000007A
PRC_W_FLAGS          00000068
PRC_W_INPCHAN        00000064
PRC_W_ONLEVEL        0000006A
PRC_W_OUTIFI         00000114
PRC_W_OUTISI         00000116
PRC_W_OUTMBXCHN      000000CA
PRC_W_OUTMBXREF      000000CE
PRC_W_OUTMBXSIZ      000000CC
PRC_W_PMPCTCTRL      000000F1
PRC_W_WAITIOSB       00000066
PSL$C_EXEC           = 00000001
PSL$C_SUPER          = 00000002
PSL$C_USER           = 00000003
PTR_B_LEVEL          00000004
PTR_B_NUMBER         00000005
PTR_B_PARMCNT        00000006
PTR_B_VALUE          00000000
PTR_C_LENGTH         = 0000000C
PTR_K_COLON          = 00000002
PTR_K_COMMA          = 00000005
PTR_K_ENDLINE        = 00000004
PTR_K_LENGTH         = 0000000C
PTR_K_PARAMETER      = 00000003
PTR_K_QUALVALU       = 00000002
PTR_L_DESCR          00000000
PTR_L_ENTITY         00000008
PTR_V_FLAGS          = 00000014

```

```

PTR_V_KEYWORD        = 00000015
PTR_V_NEGATE         = 00000014
QUAL                 = 00000008
SS$_LNMCREATED       = 000006B1
SS$_NORMAL           = 00000001
SS$_NOSUCHDEV        = 00000908
SS$_SUPERSEDE        = 00000631
SY$$ALLOC            ***** GX 02
SY$$CRELNM           ***** GX 02
SY$$CRELNT           ***** GX 02
SY$$DALLOC           ***** GX 02
SY$$DELLNM           ***** GX 02
SY$$FAO              ***** X 02
SY$$TRNLNM           ***** GX 02
TABNAM               = 00000010
TESTOUT              00000391 R 02
TRAN_ATTR            = 00000000
UNDEFINED            00000067 R 02
WRK_B_CMDOPT         FFFFFFFC3
WRK_B_MAXPARM        FFFFFFFD0
WRK_B_MINPARM        FFFFFFFD1
WRK_B_PARMCNT        FFFFFFFCE
WRK_B_PARMSUM        FFFFFFFCF
WRK_B_RECALLCNT      FFFFFFFC5
WRK_B_VALLEV         FFFFFFFC4
WRK_B_VERBTYP        FFFFFFFC2
WRK_C_INPBUFFSIZ     = 00000100
WRK_C_LENGTH         FFFFFFF486
WRK_G_BUFFER         FFFFFFF492
WRK_G_INPBUF         FFFFFFF896
WRK_G_RESULT         FFFFFFF9B6
WRK_K_LENGTH         FFFFFFF486
WRK_L_CHARPTR        FFFFFFF48E
WRK_L_DISALLOW       FFFFFFFE6
WRK_L_ERRORRTN       FFFFFFF9AE
WRK_L_EXPANDPTR      FFFFFFF486
WRK_L_IMAGE          FFFFFFFE2
WRK_L_MARKPTR        FFFFFFF48A
WRK_L_PAROUT         FFFFFFFD2
WRK_L_PMPADDR        FFFFFFF9A2
WRK_L_PROMPTRTN      FFFFFFF9A6
WRK_L_PROPTR         FFFFFFFC6
WRK_L_QUABLK         FFFFFFFCA
WRK_L_READRTN        FFFFFFF9AA
WRK_L_RECALLPTR      FFFFFFFEA
WRK_L_RSLND          FFFFFFFB6
WRK_L_RSLNXT         FFFFFFFBA
WRK_L_SAVAP          FFFFFFFF8
WRK_L_SAVFP          FFFFFFFFC
WRK_L_SAVSP          FFFFFFFF4
WRK_L_SIGNALRTN      FFFFFFFD6
WRK_L_SPECRTN        FFFFFFF9B2
WRK_L_TAB_VEC        FFFFFFFDE
WRK_L_VERB           FFFFFFFBE
WRK_W_FLAGS          FFFFFFFF0
WRK_W_FLAGS2         FFFFFFFF2
WRK_W_IMGCHAN        FFFFFFFEE

```


LOGICAL
Symbol table

- LOGICAL NAME COMMANDS

F 1

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
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WRK_W_PMPLEN

FFFFFF99E

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes															
. ABS .	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE					
\$ABSS	FFFFFFFC (0.)	01 (1.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					
DCL\$ZCODE	00000818 (2072.)	02 (2.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	BYTE					

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	15	00:00:00.08	00:00:01.26
Command processing	101	00:00:00.65	00:00:05.99
Pass 1	331	00:00:13.05	00:00:33.89
Symbol table sort	0	00:00:01.69	00:00:04.36
Pass 2	183	00:00:03.27	00:00:09.90
Symbol table output	27	00:00:00.18	00:00:00.64
Psect synopsis output	2	00:00:00.03	00:00:00.05
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	659	00:00:18.96	00:00:56.11

The working set limit was 1500 pages.
69087 bytes (135 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 980 non-local and 104 local symbols.
1065 source lines were read in Pass 1, producing 20 object records in Pass 2.
43 pages of virtual memory were used to define 28 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
-\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
-\$255\$DUA28:[DCL.OBJ]DCL.MLB;1	6
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	16
TOTALS (all libraries)	22

1132 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:LOGICAL/OBJ=OBJ\$:LOGICAL MSRC\$:LOGICAL/UPDATE=(ENH\$:LOGICAL)+EXECMLS/LIB+LIB\$:DCL/LIB+SYSS\$LIBRARY:SYSBLDMLB/LIB

0071 AH-BT13A-SE
VAX/VMS V4.0

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0072 AH-BT13A-SE
VAX/VMS V4.0

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